

Attorney Docket No. **PATENT** 

SAM-0496

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

	NEW APPLICATION	IRANSMITIAL
Transmitte	ed herewith for filing is the patent application of	
Inventor(s	s): Young-Kyun Cho	
For (title):	DIFFERENTIAL CHARGE PUMP AND METHOD THEREFOR, AND PHASE LOCKED LOOP AND METHOD THEREFOR USING THE PUMP AND METHOD	CERTIFICATE OF MAILING  37 C.F.R. § 1.10  "Express Mail" Mailing Label Number EV322656661US  I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop Patent Application, Commissioner for
	Type of Application This new application is for (n)	Patents, P.O. Box 1450, Alexandfla, Virginia 21313-1450.  Date: Amy Outen
	☑ Original (nonprovisional)	Amybreen
	□ Design □ Plant	Fillit Name
	☐ Divisional.	
	Continuation.	•
[	☐ Continuation-in-part (C-I-P).	
2. Bene	efit of Prior Application(s)	
	☑ The new application being transmitted claims the See Item 7.	e benefit of prior Korean application nos. <u>03-2528.</u>
3. Pa	pers Enclosed	
_	17 Pages of specification	
-	7 Pages of claims	
_	1 Page of Abstract	
· _	5 Sheets of drawings  ☑ formal	
	☐ informal Page of Cover Sheet	
	e enclosed drawing(s) are photograph(s), and there	

4.	Addit	ional papers	enclosed					
		Preliminary	Amendment				•	
	$\boxtimes$	Information	Disclosure Statement (37 C	c.F.R. 1.98)				
	. 🛛	Form PTO-1	449 (PTO/SB/08A and 08B	3)		•		
	$\boxtimes$	Copies of cit	ed references			•		
		Declaration of	of Biological Deposit					
			of "Sequence Listing," comp y invention containing nucl				t pertaining t	hereto for
		Authorizatio	on of Attorney(s) to Accept	and Follow	Instructions	from Represe	ntative	•
		Special Com	nments	•			1	
	. 🛛	Other: Retur	n Postcard.			•		•
5.	Dec	laration or oa	ith					
	$\boxtimes$	Enclosed						
		☐ Unexec	uted				٠	
		⊠ Execute						
		×	inventors	•				•
			legal representative of inv 37 CFR 1.42 or 1.43.	entor(s).				
			joint inventor or person sh to sign or cannot be reache		oprietary int	erest on behalf	of inventor	who refused
•			This is the petition require is also attached. See item			the statement r	equired by 3°	7 CFR 1.47
		Not Enclose	d				• •	
•		Application inventor(s).	s made by a person authoriz	•		1 (c) on behalf	of all the ab	ove named
		ب	Showing that the filing is	authorized	l., .	·		
6.	Assign	nment				•		
	×	An assignmen	nt of the invention toSa	msung Ele	ctronics Co.,	Ltd.		
	.*	is attach	ed. A separate 🗆 "COVEN	R SHEET I	OR ASSIG	NMENT (DOC		attached.

# 7. Certified Copy

Certified copy(ies) of application(s)

	Korea_	03-2528	January 14, 2003	
	Country	Appln. no.	Filed	•
* •				
•	Country	Appln. no.	Filed	
,	•	•		•
·	Country	Appln. no.	Filed	

from which priority is claimed

- is (are) attached.
- □ will follow.

# 8. Fee Calculation (37 C.F.R. 1.16)

		CLA	IMS AS FILED		
	Number file	ed	Number Extra	Rate	Basic Fee 37 C.F.R. 1.16(a) \$770.00
Total Claims (37 CFR 1.16(c))	12	- 20 =	0	\$ 18.00	
Independent Claims (37 CFR 1.16(b))	4 • .	- 3 =	1	\$ 86.00	\$86.00
Multiple dependent claim(s if any (37 CFR 1.16(d))	s),		+•	\$290.00	

Ш	A Preliminary Amendment is enclosed. The filing fee is calculated based on
	the status and number of claims remaining after entry of the Preliminary Amendment
	Amendment deleting multiple-dependencies is enclosed.

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•	ree for extra	ciaims is not	being paid at	uns une.	

Filing Fee Calculation

<u>\$ 856.0</u>0

9.	Fee Payment Being Made at This Time	
	Not Enclosed	
	No filing fee is to be paid at this time.  (This and the surcharge required by 3 7 C. F.R. 1.16(e) can be paid to the surcharge required by 3 7 C. F.R. 1.16(e) can be paid to the surcharge required by 3 7 C. F.R. 1.16(e) can be paid to the surcharge required by 3 7 C. F.R. 1.16(e) can be paid to the surcharge required by 3 7 C. F.R. 1.16(e) can be paid to the surcharge required by 3 7 C. F.R. 1.16(e) can be paid to the surcharge required by 3 7 C. F.R. 1.16(e) can be paid to the surcharge required by 3 7 C. F.R. 1.16(e) can be paid to the surcharge required by 3 7 C. F.R. 1.16(e) can be paid to the surcharge required by 3 7 C. F.R. 1.16(e) can be paid to the surcharge required by 3 7 C. F.R. 1.16(e) can be paid to the surcharge required by 3 7 C. F.R. 1.16(e) can be paid to the surcharge required by 3 7 C. F.R. 1.16(e) can be paid to the surcharge required by 3 7 C. F.R. 1.16(e) can be paid to the surcharge required by 3 7 C. F.R. 1.16(e) can be paid to the surcharge required by 3 7 C. F.R. 1.16(e) can be paid to the surcharge required by 3 7 C. F.R. 1.16(e) can be paid to the surcharge required by 3 7 C. F.R. 1.16(e) can be paid to the surcharge required by 3 C. F.R. 1.16(e) can be paid to the surcharge required by 3 C. F.R. 1.16(e) can be paid to the surcharge required by 3 C. F.R. 1.16(e) can be paid to the surcharge required by 3 C. F.R. 1.16(e) can be paid to the surcharge required by 3 C. F.R. 1.16(e) can be paid to the surcharge required by 3 C. F.R. 1.16(e) can be paid to the surcharge required by 3 C. F.R. 1.16(e) can be paid to the surcharge required by 3 C. F.R. 1.16(e) can be paid to the surcharge required by 3 C. F.R. 1.16(e) can be paid to the surcharge required by 3 C. F.R. 1.16(e) can be paid to the surcharge required by 3 C. F.R. 1.16(e) can be paid to the surcharge required by 3 C. F.R. 1.16(e) can be paid to the surcharge required by 3 C. F.R. 1.16(e) can be paid to the surcharge required by 3 C. F.R. 1.16(e) can be paid to the surcharge required by 3 C. F.R. 1.16(e) can be paid to the surcha	oaid subsequently.)
Ø	Enclosed	
	■ Basic filing fee	\$ 856.00
•	Recording assignment (\$40.00; 37 C.F.R. 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT ACCOMPANYING NEW APPLICATION".)	\$ <u>40.00</u>
	Total fees enclosed	\$ <u>896.00</u>
10.	Method of Payment of Fees	
	☐ Checks in the amounts of \$ 856.00, 40.00	·
•	☐ Charge Account No. 50-1798 in the amount of A duplicate of this transmittal is attached.	\$

## 11. Authorization to Charge Additional Fees

×	The Commissioner is hereby authorized to charge the following additional fees during the entire pendency of this application to Account No. 50-1798.
	☑ 37 C.F.R. 1.16(a), (f) or (g) (filing fees)
	☑ 37 C.F.R. 1.16(b), (c) and (d) (presentation of extra claims)
	☐ 37 C.F.R. 1. 1 6(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)
	☐ 37 C.F.R. 1.17 (application processing fees)
	□ 37 C.F.R. 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. 1.311(b))

## 12. Instructions as to Overpayment

- ☐ Credit Account No. 50-1798
- □ Refund

Date: October 24, 2003

MILLS & ONELLO LLP Eleven Beacon Street, Suite 605

Boston, MA 02108

Telephone: (617) 994-4900 Facsimile: (617) 742-7774

Respectfully submitted,

Steven M. Mills

Registration Number 36,610 Attorney for Applicants

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### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Young-Kyun Cho

Filing Date:

Herewith

Title:

DIFFERENTIAL CHARGE PUMP AND METHOD THEREFOR, AND PHASE

LOCKED LOOP AND METHOD THEREFOR USING THE PUMP AND

**METHOD** 

### CERTIFICATE OF MAILING UNDER 37 C.F.R.§ 1.10

"Express Mail" Mailing Label Number <u>EV322656661US</u> I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated below and is addressed to Mail Stop Patent Application, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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Date

Amy Geom

Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

#### TRANSMITTAL LETTER

Sir:

Enclosed herewith for filing in the above-identified patent application please find the following listed items:

- 1. New Application Transmittal;
- 2. New Patent Application;
- 3. Executed Declaration, Petition and Power of Attorney;
- 4. Five (5) Sheets of Formal Drawings (Figures 1-5);
- 5. Certified Copy of Priority Document Korean Application No. 03-2528;
- 6. Check in the amount of \$856.00 to cover application filing fee;
- 7. Information Disclosure Statement;
- 8. PTO-1449 form and copy of cited reference AA;
- 9. Assignment Recordation Form Cover Sheet - PTO-1595;
- 10. Executed Assignment;
- 11. Check in the amount of \$40.00 to cover Assignment recordation fee; and
- 12. Return Postcard.

In connection with the foregoing matter, please charge any additional fees which may be due, or credit any overpayment, to Deposit Account Number 50-1798. A duplicate copy of this letter is provided for this purpose.

Respectfully submitted,

Date: Ortola 24, 2003 Mills & Onello LLP

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